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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/654,516	09/01/2000	Louise Farrand	MERCK-2155	6056	
23599	7590 08/30/2005		EXAMINER		
MILLEN, WHITE, ZELANO & BRANIGAN, P.C.			OH, TAY	OH, TAYLOR V	
2200 CLARENDON BLVD. SUITE 1400			ART UNIT	PAPER NUMBER	
ARLINGTON, VA 22201			1625		
			DATE MAILED: 08/30/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/654,516	FARRAND ET AL.				
Office Action Summary	Examiner	Art Unit				
•	Taylor Victor Oh	1625				
The MAILING DATE of this communication app						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 12 M	ay 2005.					
2a) This action is FINAL . 2b) ⊠ This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-10 and 17-20</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-10 and 17-20</u> is/are rejected.						
7) Claim(s) is/are objected to.	- de Alice de la constante de					
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correction						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:		-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents		· 				
 Copies of the certified copies of the prior application from the International Bureau 		ed in this National Stage				
* See the attached detailed Office action for a list		d				
and the second s						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P	ite atent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:	,				

Application/Control Number: 09/654,516

Art Unit: 1625

It is noted that applicants have filed an Appeal Brief after the Final Rejection on 5/12/05; as a result of the appeal conference, the examiner has withdrawn the previous Office Action and reopened the prosecution of the application.

The Status of Claims

Claims 1-10, and 17-20 are pending.

Claims 1-10, and 17-20 have been rejected.

DETAILED ACTION

1. Claims 1-10, and 17-20 have been under consideration.

Priority

2. It is noted that the application has filed a foreign priority document of EPO 99116849.3 (09/03/1999).

Drawings

3. None.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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Claim 1-10, and 17-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, the phrase "R² is straight-chain or branched alkyl with 1 to 25 C atoms" is recited. The expression is vague and indefinite because, in order for the alkyl compound to have the branched alkyl, R² has to have at least the minimum of three carbon atoms from the beginning, not with 1 or 2 carbon atoms. Therefore, an appropriate correction is required.

In claims 7 and 8, the phrase "alkyl is straight or branched alkylene with 1 to 12 C atoms" is recited. The expression is vague and indefinite because, in order for the alkyl compound to have the branched alkylene, alkyl has to have at least the minimum of three carbon atoms from the beginning, not with 1 or 2 carbon atoms. Furthermore, the term "alkylene" would mean that the starting carbon atoms requires at least two carbon atoms with the double bond between them because the alkylene can not be formed with the only 1 C atom. Therefore, an appropriate correction is required.

In claim 19, the phrase "Sp is straight or branched alkylene with 1 to 12 C atoms" is recited. The expression is vague and indefinite because, in order for the alkyl compound to have the branched alkylene, Sp has to have at least the minimum of three carbon atoms from the beginning, not with 1 or 2 carbon atoms. Furthermore, the term "alkylene" would mean that the starting

carbon atoms requires at least two carbon atoms with the double bond between them because the alkylene can not be formed with the only 1 C atom.

Therefore, an appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-2, 4, 6, and 18 are rejected under 35 U.S.C. 102(b) as being anticipated clearly Hall et al (WO 97/16504)

Hall et al discloses a liquid crystal polymer as shown below (see page 23, compound #2):

This is identical with the claims.

5. Claims 1-2, 4-6, and 18 are rejected under 35 U.S.C. 102(b) as being anticipated clearly Onishi et al. (US 5,750,213).

Onishi et al discloses the polymerizable compound represented by formula (I):

$$\begin{array}{c} X \\ CH_{2} = CCOO(CH_{2})_{1} \\ X \\ CH_{2} = CCOO(CH_{2})_{m} \end{array}$$

$$\begin{array}{c} X \\ CH_{2} + CH_{2} + O(CH_{2})_{p} \\ CH_{2} = CCOO(CH_{2})_{m} \end{array}$$

$$\begin{array}{c} (I) \\ F \\ F \\ CH_{3} = CCOO(CH_{3})_{m} \end{array}$$

where X is a hydrogen atom or a methyl group; I and m are independently an integer of 0 to 14; Y is a single bond, —COO—, —OCO—, or —O—; n and p are independently an integer of 0 to 18; q and s are independently an integer of 0 or 1; and R^A and R^B are independently represented by Formula (II) or (III);

provided that, when q=1, $p\ge 2$; and when \mathbb{R}^A is represented by the Formula (II). \mathbb{R}^B is represented by the Formula (II).

Furthermore, the following compounds are the examples of the above formula:

(see col. 31, line 35)

They are identical with the claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Taylor Victor Oh whose telephone number is 571-272-0689. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cecilia Tsang can be reached on 571-272-0562. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A/25/55